

Notice of Allowability	Application No.	Applicant(s)
	10/658,044	NGUYEN, THAT
	Examiner Daniel J. Cavallari	Art Unit 2836

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to 8/7/2006.
2. The allowed claim(s) is/are 1-22.
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All
 - b) Some*
 - c) None
 of the:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) hereto or 2) to Paper No./Mail Date _____.
 - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. Notice of References Cited (PTO-892)
2. Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. Notice of Informal Patent Application
6. Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. Examiner's Amendment/Comment
8. Examiner's Statement of Reasons for Allowance
9. Other _____.

DETAILED ACTION

The examiner acknowledges a submission of the amendment filed on 8/7/2006.

The amendments to claims 1-13, 15, 16, 21, & 22 and specification are accepted.

The previously made 112 rejections to claims 7 & 11 have been withdrawn in view of the amendments.

Allowable Subject Matter

Claims 1-22 are allowed.

The following is a statement of reasons for the indication of allowable subject matter:

In regard to Claims 1 & 12

Early (US 6,317,356) teaches a multi phase switching device in which each line comprises two separate switches and wherein one switch is switched at a positive going zero crossing and the other switch is switched at the negative going zero crossing (See Column 4, Line 66 to Column 5, Line 25 and Figures 2, 3, 4A & 4B). Coston (US 4,713,744) teaches a multiphase electric load wherein the phases of the load are switched on and off at the zero crossings however there is a lack of motivation to combine the multi phase load of Coston with the switching scheme of Early in which to switch some phases on/off during a positive amplitude zero-crossing and at least another separate phase at a negative amplitude zero-crossing.

In regard to Claim 16

Claim 16 is allowable for reasons disclosed in the previous office action.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

- Shin et al. (US 4,901,005) teaches a zero voltage crossover detector for polyphone systems (See Column 1, Line 10 to Column 2, Line 4).
- Smith (US 2004/0251910 A1, See Paragraph 2).
- Messersmith (2004/0051494 A1).
- Briesen et al. (US 2003/0112640 A1).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel J. Cavallari whose telephone number is (571)272-8541. The examiner can normally be reached on Monday-Friday 8:30-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brian Sircus can be reached on (571)272-2800 x36. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Daniel Cavallari

October 12, 2006



BRIAN SIRCUS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800